

IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

Declaration and Power of Attorney

As the below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled **Phase Matched Parametric Light Generation in Monolithically Integrated Intersubband Optical Devices** the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to in this oath or declaration.

I acknowledge the duty to disclose all information known to me which is material to patentability as defined in Title 37, Code of Federal Regulations, 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, 119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed: **None**

I hereby claim the benefit under Title 35, United States Code, 119(e) of any United states provisional application(s) listed below: **None**

I hereby claim the benefit under Title 35, United States Code, 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application: **None**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint the following attorney(s) with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

Kenneth M. Brown	(Reg. No. 37590)
Donald P. Dinella	(Reg. No. 39961)
Martin I. Finston	(Reg. No. 31613)
Barry H. Freedman	(Reg. No. 26166)
Julio A. Garceran	(Reg. No. 37138)
Jimmy Goo	(Reg. No. 36528)
Stephen M. Gurey	(Reg. No. 27336)
David W. Herring, Jr.	(Reg. No. 51069)
Matthew J. Hodulik	(Reg. No. 36164)
Irena Lager	(Reg. No. 39260)
John B. MacIntyre	(Reg. No. 41170)
Christopher N. Malvone	(Reg. No. 34866)
John F. McCabe	(Reg. No. 42854)
James Milton	(Reg. No. 46935)
Gregory J. Murgia	(Reg. No. 41209)
Eugene J. Rosenthal	(Reg. No. 36658)
Steven R. Santema	(Reg. No. 40156)
David A. Sasso	(Reg. No. 43084)
Ozer M. N. Teitelbaum	(Reg. No. 36698)

I hereby appoint the attorney(s) on ATTACHMENT A as associate attorney(s) in the aforementioned application, with full power solely to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected with the prosecution of said application. No other powers are granted to such associate attorney(s) and such associate attorney(s) are specifically denied any power of substitution or revocation.

Full name of joint inventor: **Alexey Belyanin**

Inventor's signature  Date 03/22/2004

Residence: College Station, Brazos County, Texas

Citizenship: Russia

Post Office Address: 2107 Walnut Grove Court  
College Station, TX 77845

Full name of joint inventor: **Alfred Yi Cho**

Inventor's signature Alfred Yi Cho Date 3/26/2004

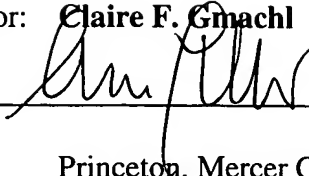
Residence: Summit, Union County, New Jersey

Citizenship: United States of America

Post Office Address: 11 Kenneth Court  
Summit, New Jersey 07901

Full name of joint inventor: **Claire F. Gmachl**

Inventor's signature



Date

3/23/04

Residence:

Princeton, Mercer County, New Jersey

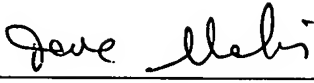
Citizenship:

Austria

Post Office Address:

302 Trinity Court (Apt 6)  
Princeton, NJ 08540

Full name of joint inventor: **Oana Malis**

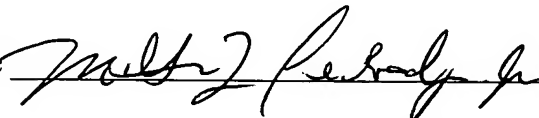
Inventor's signature  Date 03/25/04

Residence: Chatham, Morris County, New Jersey

Citizenship: Romania

Post Office Address: 420 River Road (Apt. E12)  
Chatham, New Jersey 07928

Full name of joint inventor: **Milton L. Peabody, Jr** ml

Inventor's signature  Date 3/22/04

Residence: Somerville, Somerset County, New Jersey

Citizenship: United States of America

Post Office Address: 25 Reimer Street  
Somerville, New Jersey 08876

Full name of joint inventor: **Arthur Mike Sergent**

Inventor's signature Arthur Mike Sergent Date 03-22-04

Residence: New Providence, Union County, New Jersey

Citizenship: United States of America

Post Office Address: 16 Stanley Road  
New Providence, NJ 07974

Full name of joint inventor: **Deborah Lee Sivco**

Inventor's signature Deborah Lee Sivco Date 3-25-04

Residence: Warren, Somerset County, New Jersey

Citizenship: United States of America

Post Office Address: 16 Plainfield Avenue  
Warren, New Jersey 07059

**ATTACHMENT A**

Attorney Name(s): **Michael J. Urbano**

Reg. No.: 24,522

Telephone calls should be made to **Michael J. Urbano** at:

Phone No.: 610-691-7710

Fax No.: 610-691-8434

All written communications are to be addressed to:

**Michael J. Urbano, Esq.  
1445 Princeton Drive  
Bethlehem, PA 18017-9166**